TECHNICAL REPORT

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Our Ref: **TX-7367-S1**
Date: 08 March 2021
Delivery Date: 08 December 2021
Test Dates: 15 January- 01 March 2021

For the attention of Rebecca Grimes

SAMPLE(S) FOR TEST:

One, Fabric – Ref: Gravity Colour: Petal Run: 462639

Note: The above descriptions are as supplied by the client and have not been verified by FIRA International who can take no responsibility for the accuracy of the description.

TEST REQUIREMENTS:	RESULT:
Abrasion - BS EN ISO 12947-2: 2016	Severe Contract
Colour fastness to light - BS EN ISO 105-B02: 2014 Method 3*	Severe Contract

*Contracted out to another UKAS accredited test laboratory

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Registered in England No: 3181481

UKAS TESTING
0174

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DESCRIPTION

One, Fabric – Ref: Gravity Colour: Petal Run: 462639

Initial Inspection: Condition as new

Unless otherwise stated:

Conditioning: In accordance with BS EN ISO 139: 2005+A1:2011; >24 hours at 20±2°C & 65±4% relative humidity;

Testing: In accordance with BS EN ISO 139: 2005+ A1:2011 20±2°C & 65±4% relative humidity

TEST RESULTS

MARTINDALE ABRASION TEST – BS EN 14465: 2003 Annex A (Method BS EN ISO 12947-2: 2016).

Specimen breakdown for woven fabrics, defined in BS EN 14465: 2003 as three threads completely broken occurred at:

Specimen A	80,000 cycles
Specimen B	80,000 cycles
Specimen C	80,000 cycles
Overall result	80,000 cycles

At 3,000 cycles the colour change assessed as in BS EN 20105-A02 was grade 4-5.

The abrasion resistance is evaluated by the end point method with an 8-fold magnification aid. The specimens were mounted in specimen holders with foam backing and the specimen pressure used for upholstery use applications is 12kPa.

COLOUR FASTNESS TO LIGHT – BS EN ISO 105-B02: 2014 Method 3*

Conditioning: None required

Testing: In accordance with BS EN ISO 105-B02:2014 the conditions are set to Exposure cycle A1 where Black Standard Temperature is 47±3°C and Effective Humidity is approximately 40% (monitored through the use of humidity-test control fabric).

Blue dyed wool grade
6

The numerical rating for the light fastness on the scale of exposed blue dyed wool was **6.**

*According to BS 2543: 2004, fabrics suitable for light domestic, general domestic, heavy domestic, general contract upholstery use applications should display the minimum rating of **5,** and a minimum rating of **6** for fabrics suitable for severe contract use.*

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CONCLUSION

The material properties for BS EN 14465: 2003 indicates that this fabric reaches a performance level of:

Test performed	Performance level
Abrasion - BS EN 14465: 2003 Annex A (BS EN ISO 12947-2:2016)	A
Colour fastness to light - BS EN ISO 105-B02: 2014 Method 3	A

According to BS 2543:2004, this fabric is suitable in respect of abrasion properties for Severe Contract (SC) upholstery applications.

According to BS 2543: 2004, this fabric is suitable in respect of colour fastness to light properties for Severe Contract (SC) upholstery use applications.*

A Grading Assessment Tolerance of +/-0.5 of grade is applicable for all Colour Fastness assessments due to their subjective nature. This uncertainty was not applied to the reported results and therefore it needs to be considered when determining compliance with a specification. The temperature and humidity are at the tolerances stated in the standard. Uncertainty of Measurement calculations have not been applied. FIRA Uncertainty of Measurement values are available on request.

Tested by: Stephen Cotton

Reported by: Luis Mitchell

Approved by: Stephen Cotton
Technical Specialist

********** End of Report **********